

CLAIMS

1. Device for joining together, in a longitudinal direction (X-X), two parts (1,2) arranged at 90° with respect to each other, comprising a head (100) integral with one (1,2) of the two parts to be joined, a pin (300) integral with the other (2,1) of the said parts to be joined, characterized in that said head has, arranged inside it, a gearing (210,220) able to be actuated in a direction (Y-Y) perpendicular to the longitudinal joining direction and operate said pin (300) so to determine joining together of the two parts (1,2) in the longitudinal direction (X-X).

2. Device according to Claim 1, characterized in that said head (100) is formed by a first half-head (110) and by a second half-head (120) which can be joined together by means of associated coupling elements (115,125) and corresponding centring seats (116,126).

3. Device according to Claim 2, characterized in that the first half-head (110) has inside it a first coaxial seat (111) which is open towards the flat front side (110a) of the half-head (110) and blind towards the opposite end coinciding with the curved side surface of the said half-head.

4. Device according to Claim 3, characterized in that the front edge (111a) of the seat (111) has an annular undercut portion (111b).

5. Device according to Claim 2, characterized in that the half-head (110) has, formed inside it, a second seat (112) arranged along a horizontal plane and intersecting the said longitudinal seat (111) so that the two recesses are open and communicate with each other along the axial extension of the said seats.

6. Device according to Claim 5, characterized in that the said second seat (112) opens outwards by means of a hole (113) with an axis perpendicular to the longitudinal direction (X-X), formed in the upper front surface of the half-head (110).

7. Device according to Claim 2, characterized in that said second half-head (120) has a first seat (121) passing through the curved side surface of the half-head (120) via a hole (121a) coaxial with the longitudinal direction (X-X).

8. Device according to Claim 2, characterized in that said half-head (120) has a second seat (122) arranged along a horizontal plane and tangential to the said longitudinal seat (121).

9. Device according to Claim 8, characterized in that said second seat (122) extends towards the inside of the half-head (120) only over a short axial distance.

10. Device according to Claim 1, characterized in that said gearing (200) comprises a toothed wheel (210) which has teeth (211) extending from one side of the wheel parallel to the axis of rotation (Y-Y) thereof and along the entire circumference of the wheel.

11. Device according to Claim 10, characterized in that said toothed wheel has an actuating seat (212) formed on the side of the wheel opposite to that of the teeth (211).

12. Device according to Claim 11, characterized in that said actuating seat (212) has a profile shaped according to one or more cross-like/hexagonal profiles

or the like of corresponding operating spanners.

13. Device according to Claim 10, characterized in that said gearing (200) comprises a toothed rim (221) annularly formed on the external surface of a coaxial tube (222) which is also provided with an internal female thread (223).

14. Device according to Claim 13, characterized in that said toothed rim (221) is axially arranged at a certain distance from the edge of the tube (222) so as to define an axial section (222a) thereof able to be coaxially inserted inside said first longitudinal seat (111) of the half-head (110).

15. Device according to Claim 1, characterized in that said pin (300) comprises a cylindrical central section (310), a first shank extending longitudinally from one side of the said cylindrical section and provided with a thread (320a) able to engage with the female thread (223) of the tube (222) and a second shank (33) extending on the opposite side to the first shank (320) relative to the central section (310) and in turn provided with a thread (330a).

16. Device according to Claim 15, characterized in that the free end part of said first shank (320) is formed as an inset hexagonal part (321) suitable for engagement with a corresponding operating spanner.

17. Device according to Claim 15, characterized in that smoothed zones (310a) able to form elements for engagement with an operating spanner are provided on the side surface of the said central part (310).

18. Device according to Claim 15, characterized in

that said thread (330a) of the second shank (330) is suitable for engagement with a female thread (401) of a bush (400) integral with one of the two parts (1,2) to be fastened together.

19. Device according to Claim 15, characterized in that the pitch of the thread (330a) of the second threaded shank (330) is greater than the pitch of the thread (320a) of the first shank (320) of the pin (300).

20. Use of the device according to Claim 1 for adjusting the level position of a furniture element (101) or the like.